

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Division of Forestry and Wildlife
Honolulu, Hawaii 96813

March 14, 2007

Chairperson and Members
Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

Land Board Members:

SUBJECT: Request for Approval of the Placement of Hazard Warning and Management Signs on Improved Public Lands at Various Locations Under the Jurisdiction of DOFAW on Kauai, Maui and Hawaii Pursuant to Act 82, Session Laws Hawaii, 2003

Act 82, 2003 Session Laws Hawaii, Relating to Public Land Liability, established a process for installing and maintaining warning signs on improved public lands, and provides the State and Counties with protection from liability for damages caused by the dangerous natural conditions that are identified through the signage. Pursuant to Act 82, the Board is to review and approve of the design and placement of these signs. The Board, following the recommendations of the Risk Assessment Working Group, previously approved the sign designs and sign placement at a number of park and trail locations.

Sign Placement Criteria

Pursuant to Chapter 8, HAR, the following guidelines have been used for determination of the placement of signage:

§13-8-9 Public use and exposure. (a) Traffic patterns and managed access points of people accessing the improved public lands shall be considered when placing signs. (b) The type, frequency, and location of incidents or potential public exposure relating to specific dangerous natural conditions when known on the improved public lands shall be considered when placing signs.

§13-8-10 Placement. Sign(s) shall be placed at or near access points; i.e., along vehicle and pedestrian traffic corridors in clearly visible locations placed as close as possible to the potentially dangerous natural conditions on improved public lands and at managed and designated entrances where the signs will be seen as users enter improved public lands. View sheds, aesthetics, and feasibility of installation shall be considered in the placement of the signs. Signs shall be installed with consideration for the average

adult line of sight but outside of the general path of travel to avoid physical contact with the signs. Signs may be attached to posts or by any other method of installation depending on the nature of the location and terrain.

Attached are Exhibits A, B and C for entrance and site-specific signs warning of dangerous natural conditions and ancillary management conditions.

RECOMMENDATION:

That the Board:

1. Approve the placement of the signs at the locations as depicted on Exhibits A, B and C.

Respectfully submitted,

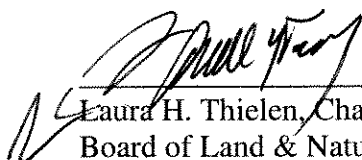


PAUL J. CONRY
Administrator

Attachments:

- Exhibit A: Maps depicting the placement of signs for locations on Maui
- Exhibit B: Map depicting the placement of signs for locations on Hawaii
- Exhibit C: Map depicting the placement of signs for locations on Kauai

APPROVED FOR SUBMITTAL:



Laura H. Thielen, Chairperson
Board of Land & Natural Resources

EXHIBIT: A

DLNR Division: DOFAW **Island:** Maui **Unnamed Site – Puohokamoa Stream**

Exposure to natural conditions: Falling rocks, stream crossings, shallow water with submerged hazards

Site Specific Hazard Signs:

Station: MA00009	Warning - Falling Rock	(WFRS)
Station: MA00010	Warning – Falling Rock	(WFRS)
Station: MA00009	Danger - No Diving or Jumping	(DNDS)
Station: MA00010	Danger – No Diving or Jumping	(DNDS)
Station: MA00009	Warning - Flash Flood	(WFFS)
Station: MA00010	Warning – Flash Flood	(WFFS)

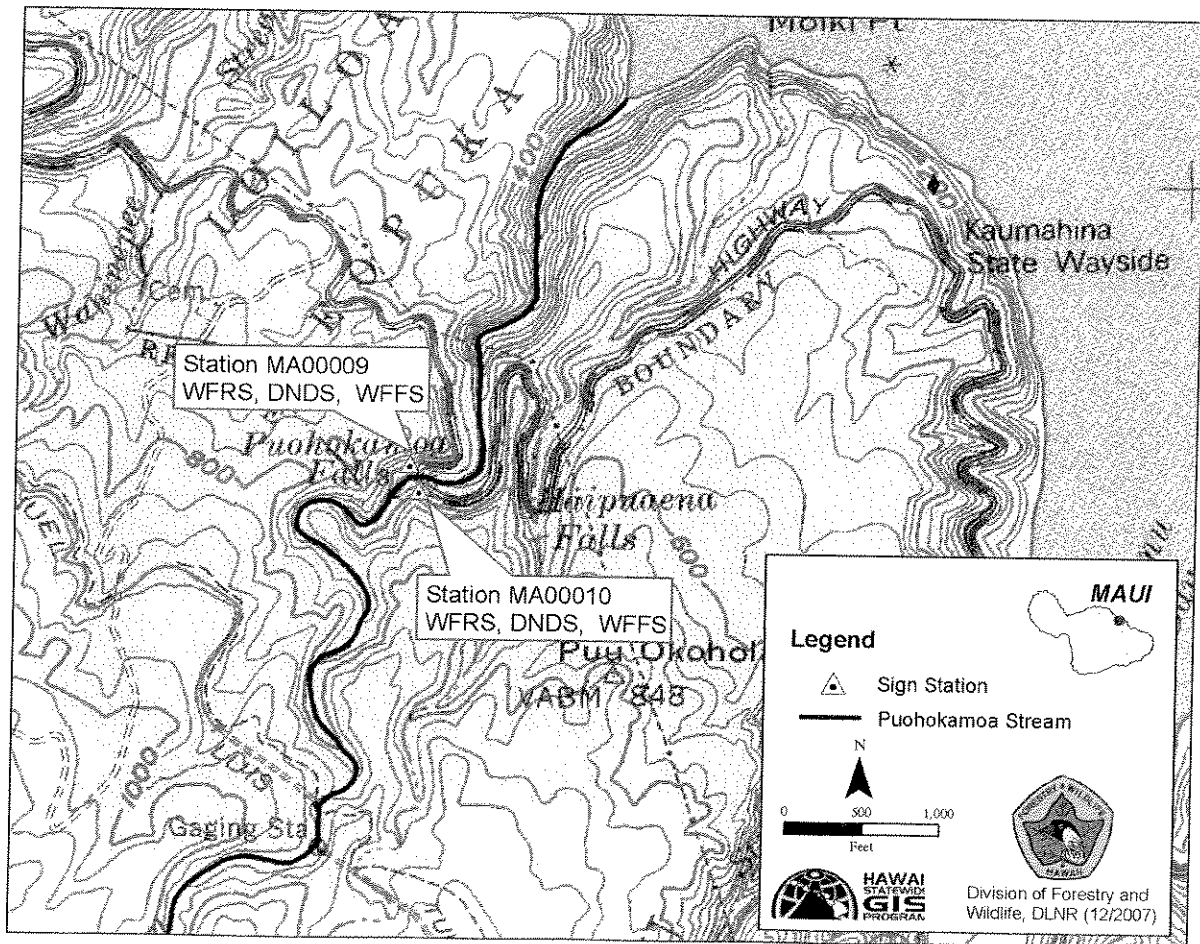


EXHIBIT: A

DLNR Division: DOFAW **Island:** Maui **Trail Name:** Keanae Arboretum

Exposure to natural conditions: Stream crossings, shallow water with submerged hazards

Entrance Hazard Signs:

Station: MA00011	Danger – No Diving or Jumping	(DNDE)
Station: MA00013	Danger – No Diving or Jumping	(DNDE)
Station: MA00011	Warning - Flash Floods	(WFFE)
Station: MA00013	Warning – Flash Floods	(WFFE)

Site Specific Hazard Signs:

Station: MA00012	Danger – No Diving or Jumping	(DNDS)
Station: MA00012	Warning- Flash Floods	(WFFS)

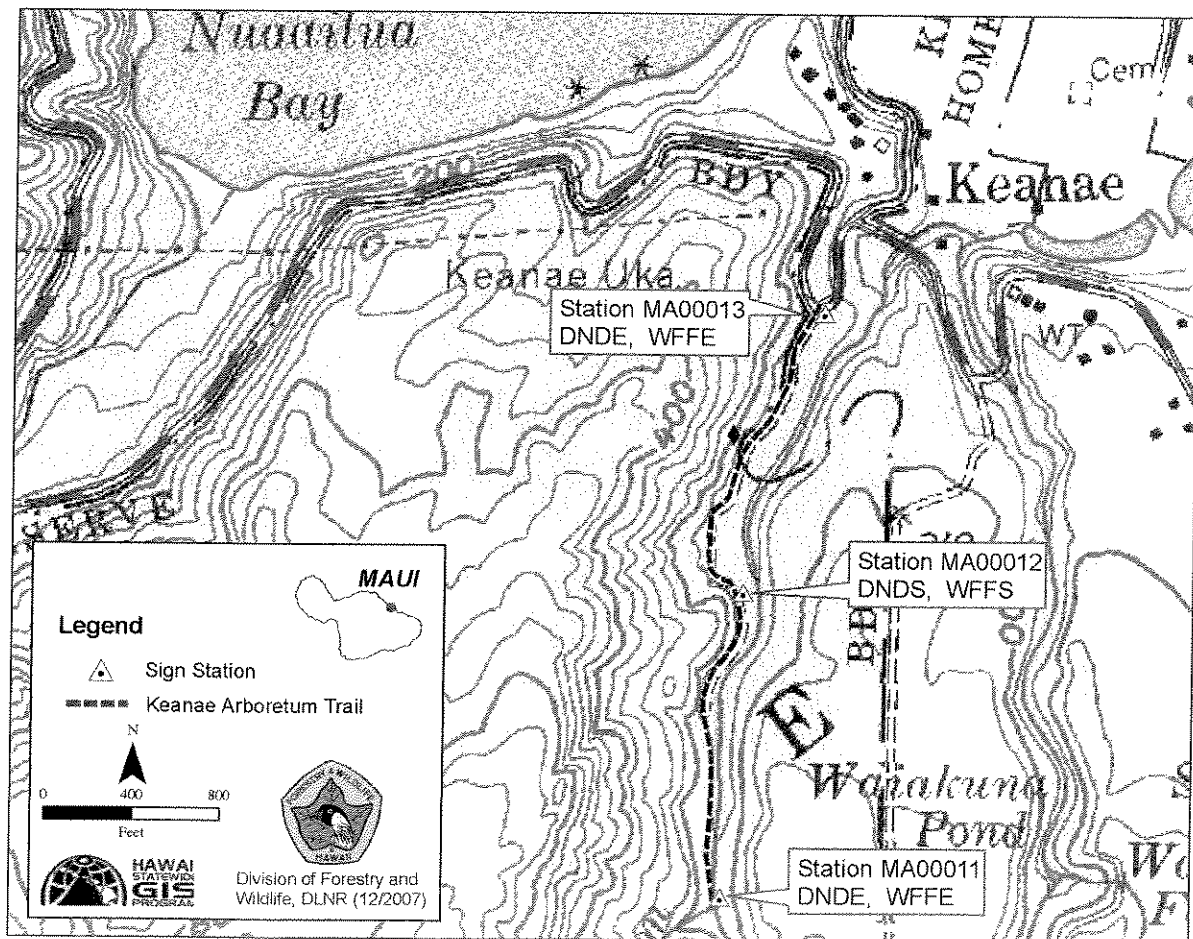


EXHIBIT: A

DLNR Division: DOFAW Island: Maui Trail Name: Pi'ilani
(Wai'anapanapa section)

Exposure to natural conditions: Cliffs

Entrance Hazard Signs:

Station: MA00014	Warning – Hazardous Cliffs	(WHCE)
Station: MA00015	Warning – Hazardous Cliffs	(WHCE)
Station: MA00016	Warning – Hazardous Cliffs	(WHCE)
Station: MA00017	Warning – Hazardous Cliffs	(WHCE)
Station: MA00019	Warning – Hazardous Cliffs	(WHCE)

Site Specific Hazard Signs:

Station: MA00018	Warning – Hazardous Cliffs	(WHCS)
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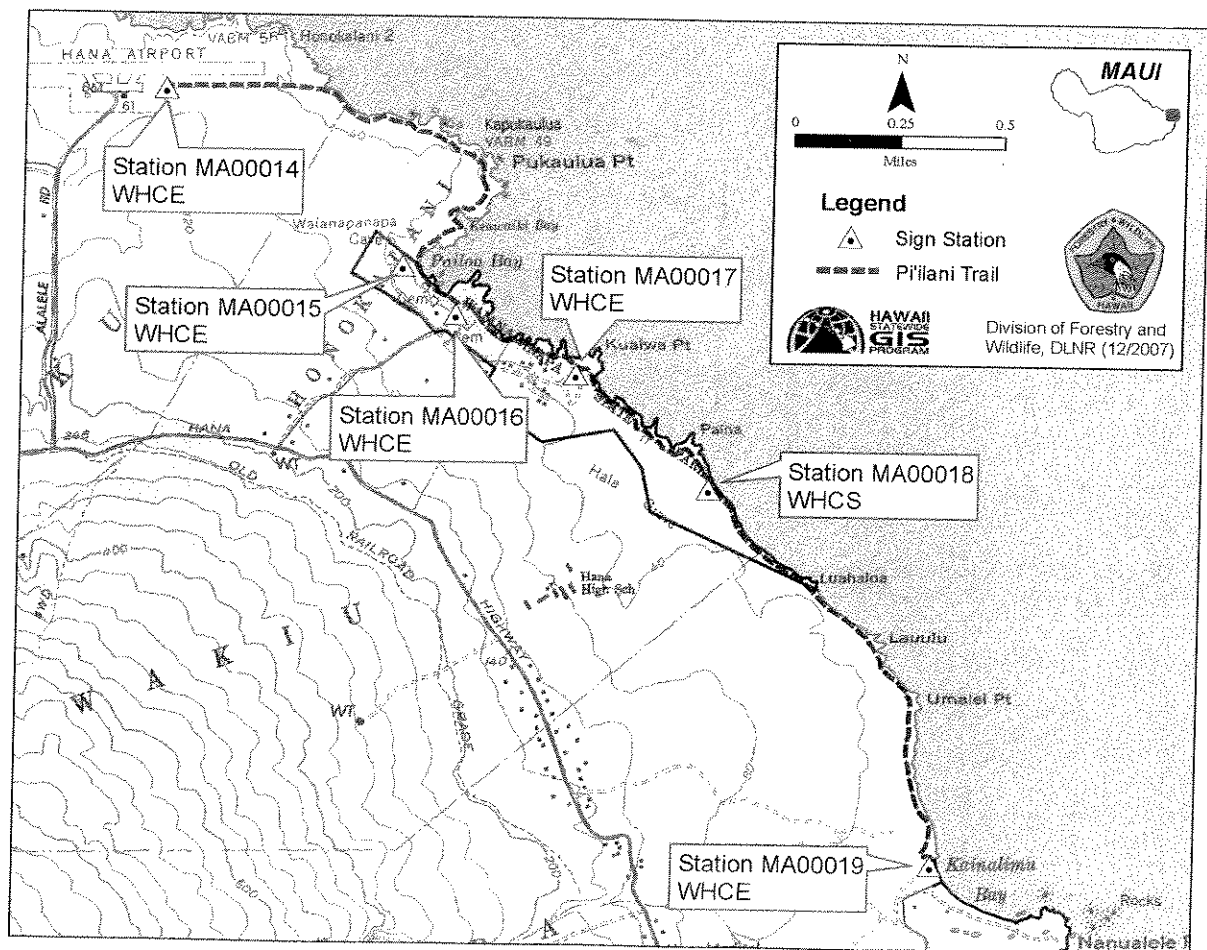


EXHIBIT: B

DLNR Division: DOFAW **Island:** Hawaii **Trail Name:** Kaheawai
Exposure to natural conditions: Stream crossings, falling rocks

Entrance Hazard Signs:

Station: HA0000	Warning - Falling Rocks	(WFRE)
	Warning- Flash Floods	(WFFE)

Site Specific Hazard Signs

Station: HA0000	Warning - Falling Rocks	(WFRS)
	Warning- Flash Floods	(WFFS)

Management Signs:

Station: HA0000	End of maintained trail	(NETS)
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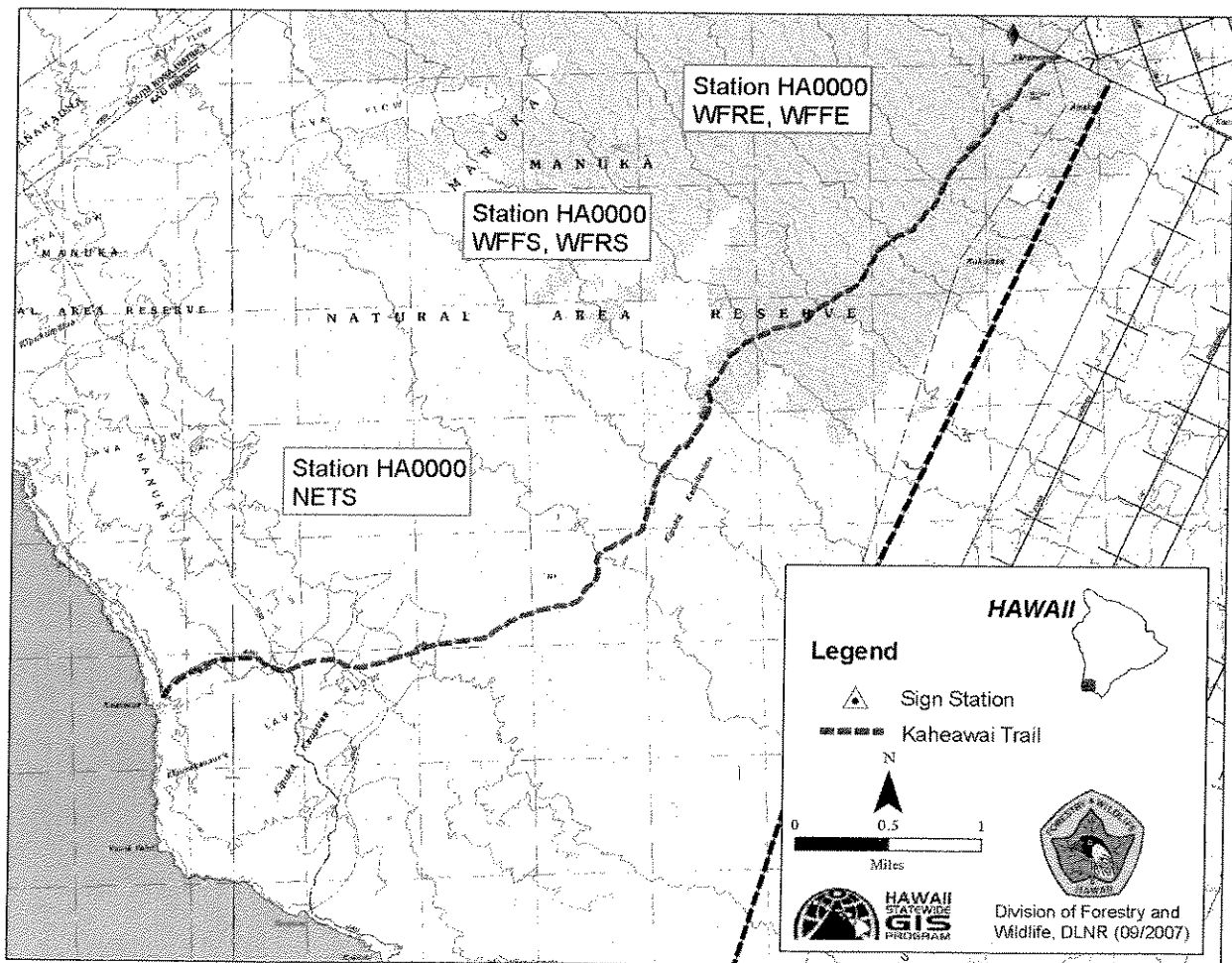


EXHIBIT: B

DLNR Division: DOFAW **Island:** Hawaii **Trail Name:** White Road

Exposure to natural conditions: Cliffs

Entrance Hazard Signs:

Station: HA00020 Warning – Hazardous Cliffs (WHCE)

Site Specific Hazard Signs:

Station: HA00021 Warning - Hazardous Cliff (WHCS)

Management Signs:

Station: HA00021 End of Trail (NETS)

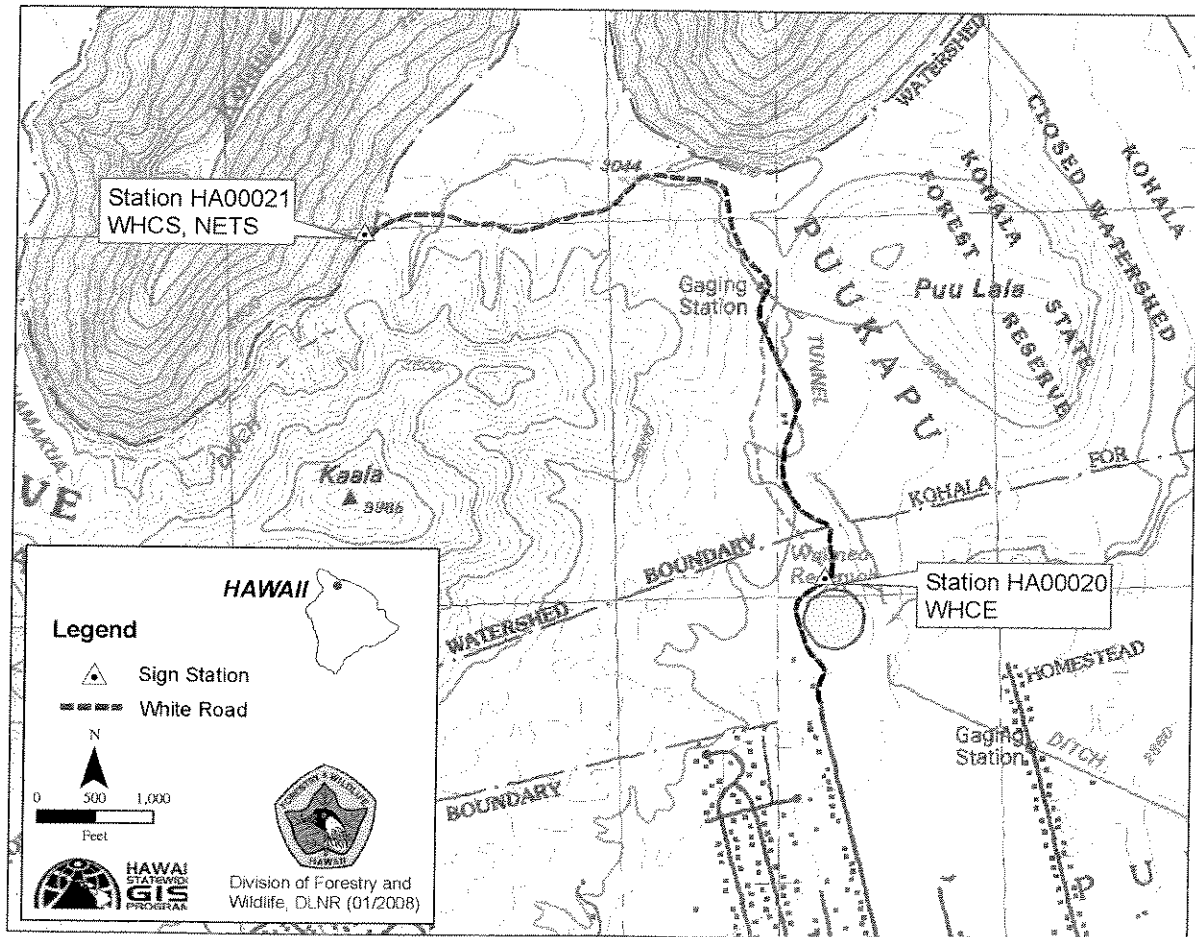


EXHIBIT: B

DLNR Division: DOFAW **Island:** Hawaii **Trail Name:** Kapaloa Falls

Exposure to natural conditions: Cliffs, falling rocks, shallow water with submerged hazards

Entrance Hazard Signs:

Station: HA00022	Warning - Falling Rocks	(WFRE)
	Warning - Hazardous Cliffs	(WHCE)
	Danger - No Diving or Jumping	(WNDE)

Site Specific Hazard Signs:

Station: HA00023	Warning - Falling Rocks	(WFRS)
	Warning - Hazardous Cliffs	(WHCS)
	Danger - No Diving or Jumping	(WNDS)

Management Signs:

Station: HA00024	End of Trail	(NETS)
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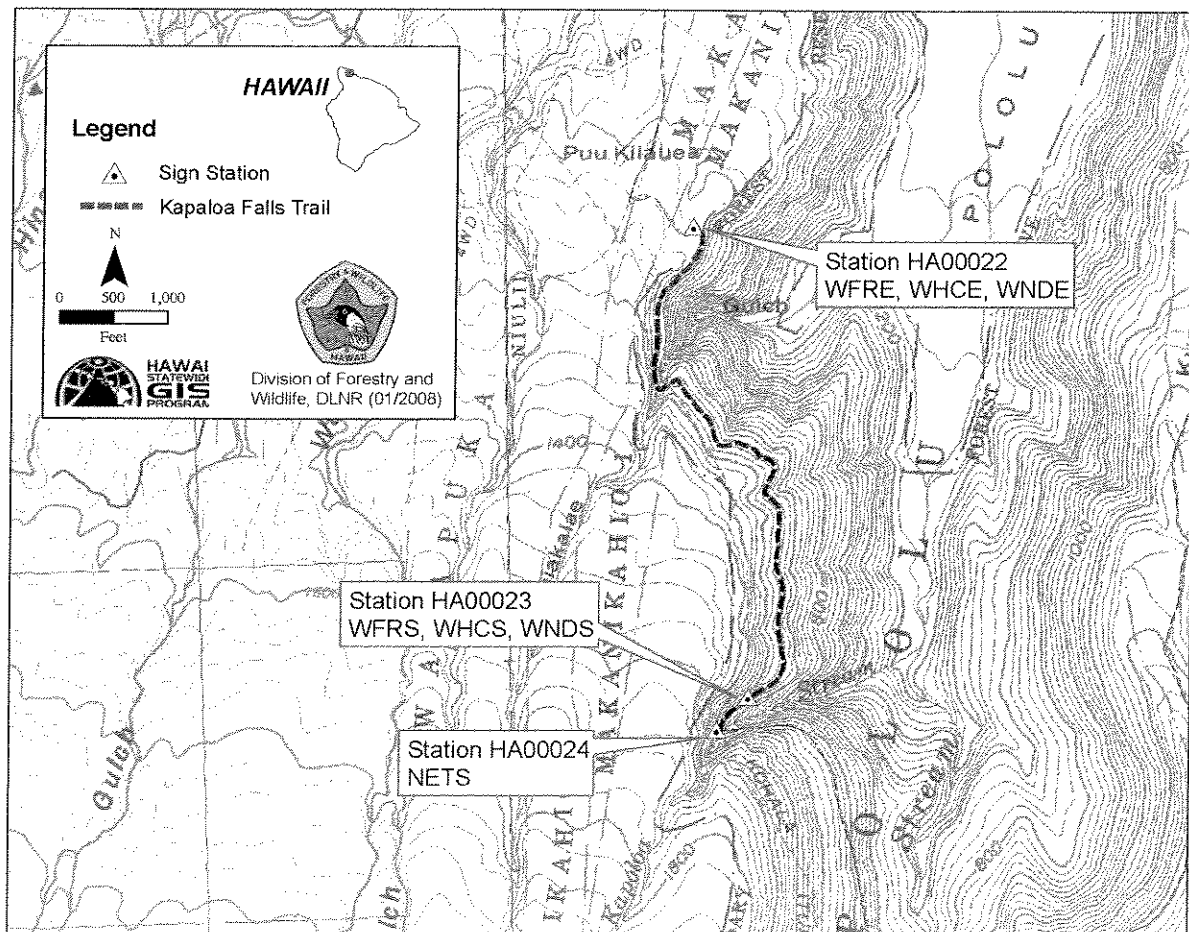


EXHIBIT: B

DLNR Division: DOFAW **Island:** Hawaii **Trail Name:** Pololu

Exposure to natural conditions: Stream crossings

Entrance Hazard Signs:

Station: HA00013 Warning - Flash Flood (WFFE)

Site Specific Signs:

Station: HA00014 Warning Flash Flood (WFFS)

Management Signs:

Station: HA00015 End of Trail (NETS)
Area Closed (NACS)

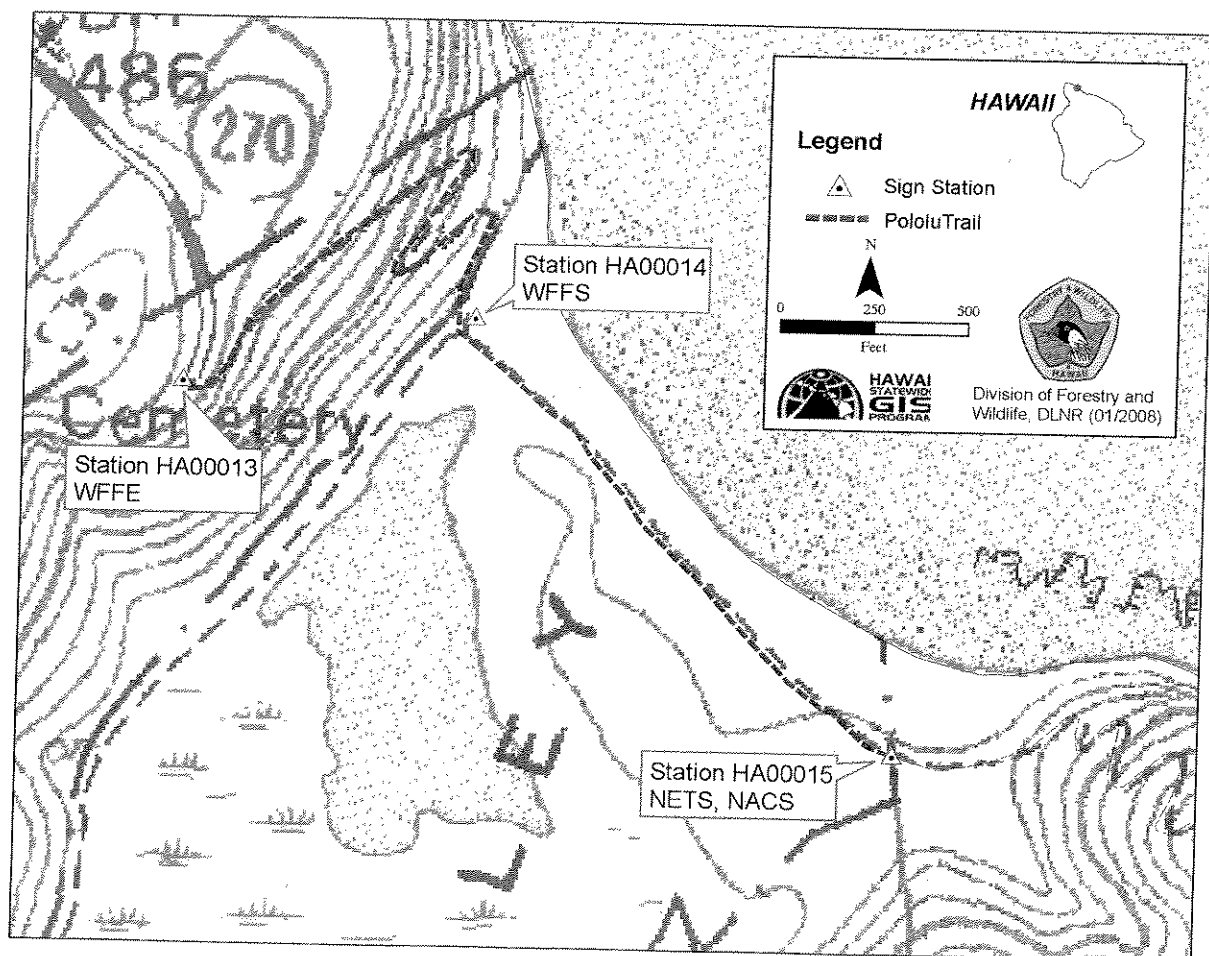


EXHIBIT: B

DLNR Division: DOFAW **Island:** Hawaii **Trail Name:** Ala Kahakai

Exposure to natural conditions: Cliffs

Entrance Hazard Signs:

Station: HA00016 Warning - Hazardous Cliffs (WHCE)

Site Specific Signs:

Station: HA00017 Warning - Hazardous Cliffs (WHCS)

Station: HA00018 Warning - Hazardous Cliffs (WHCS)

Site Specific Management Signs:

Station: HA00019 End of Trail (NETS)

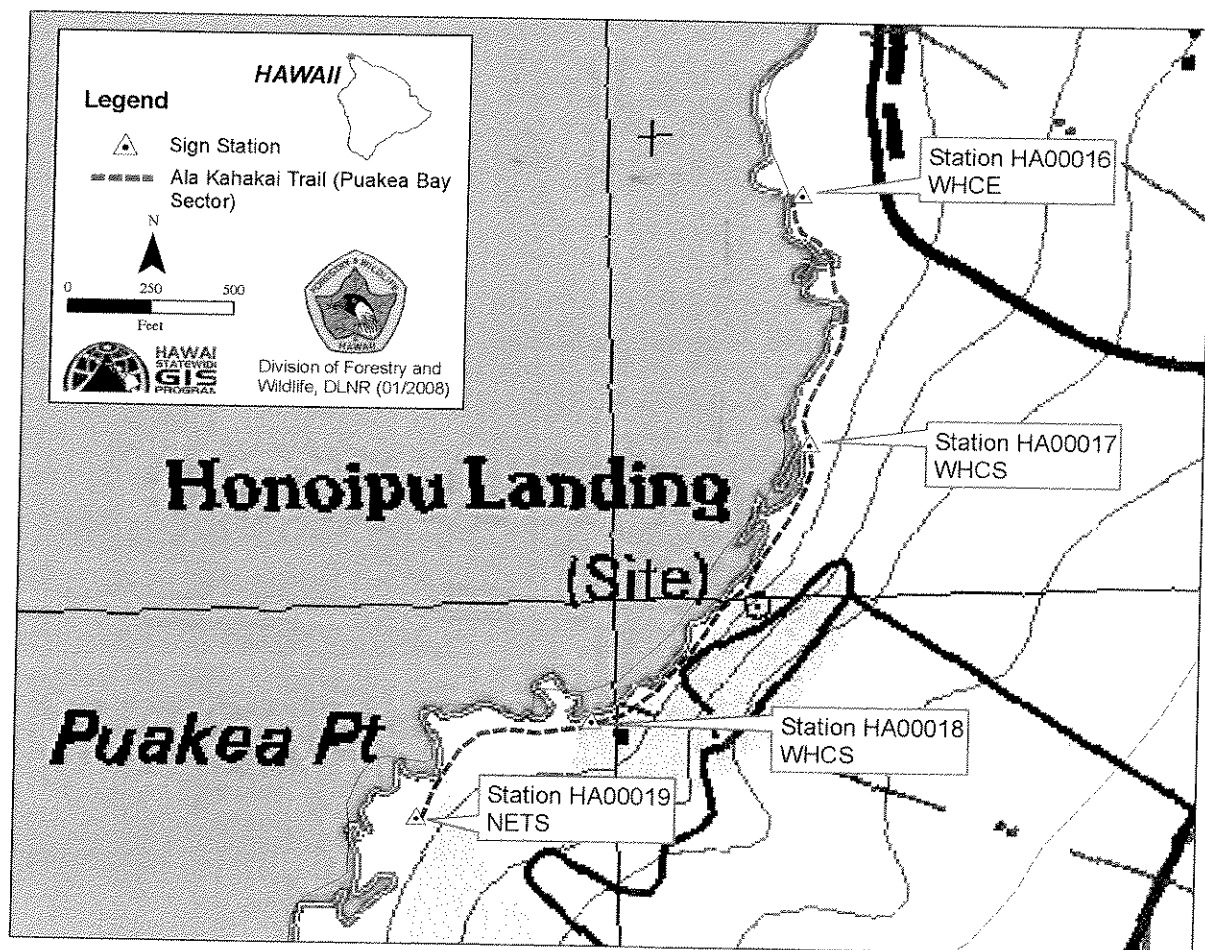


EXHIBIT: C

DLNR Division: DOFAW **Island:** Kauai

Trail Name: Nounou Mountain East/West

Exposure to natural conditions: Cliffs

Entrance Hazard Signs:

Station: KA00001	Warning - Hazardous Cliffs	(WHCE)
Station: KA00004	Warning – Hazardous Cliffs	(WHCE)

Site Specific Hazard Signs:

Station: KA00002	Warning – Hazardous Cliffs	(WHCS)
Station: KA00003	Warning – Hazardous Cliffs	(WHCS)

Management Signs:

Station: KA00002	End of Trail	(NETS)
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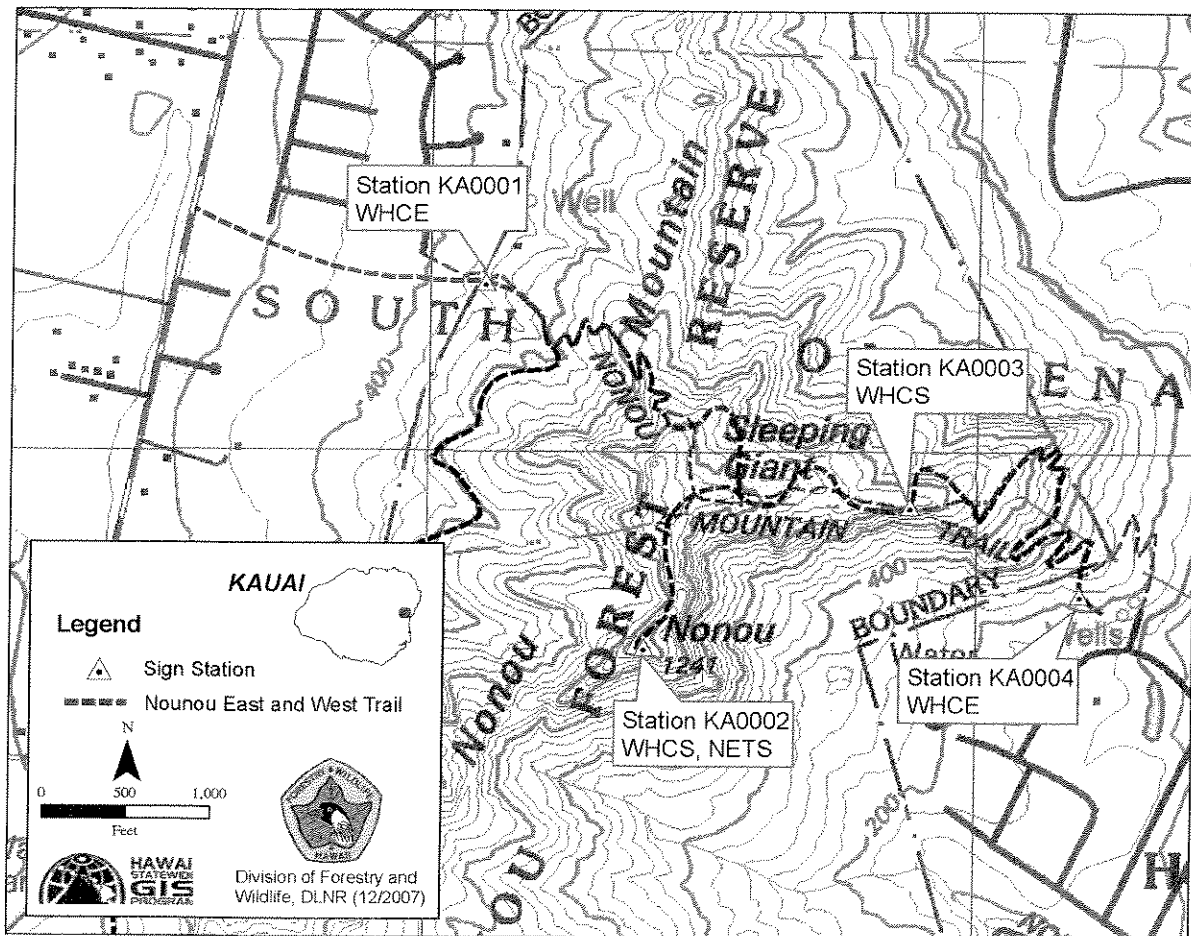


EXHIBIT: C

DLNR Division: DOFAW **Island:** Kauai **Trail Name:** Nu'alolo Cliff

Exposure to natural conditions: Cliffs

Entrance Hazard Signs:

Station: KA00006	Warning - Hazardous Cliffs	(WHCE)
Station: KA00009	Warning - Hazardous Cliffs	(WHCE)

Site Specific Hazard Signs:

Station: KA00005	Warning - Hazardous Cliffs	(WHCS)
Station: KA00007	Warning - Hazardous Cliffs	(WHCS)
Station: KA00008	Warning - Hazardous Cliffs	(WHCS)

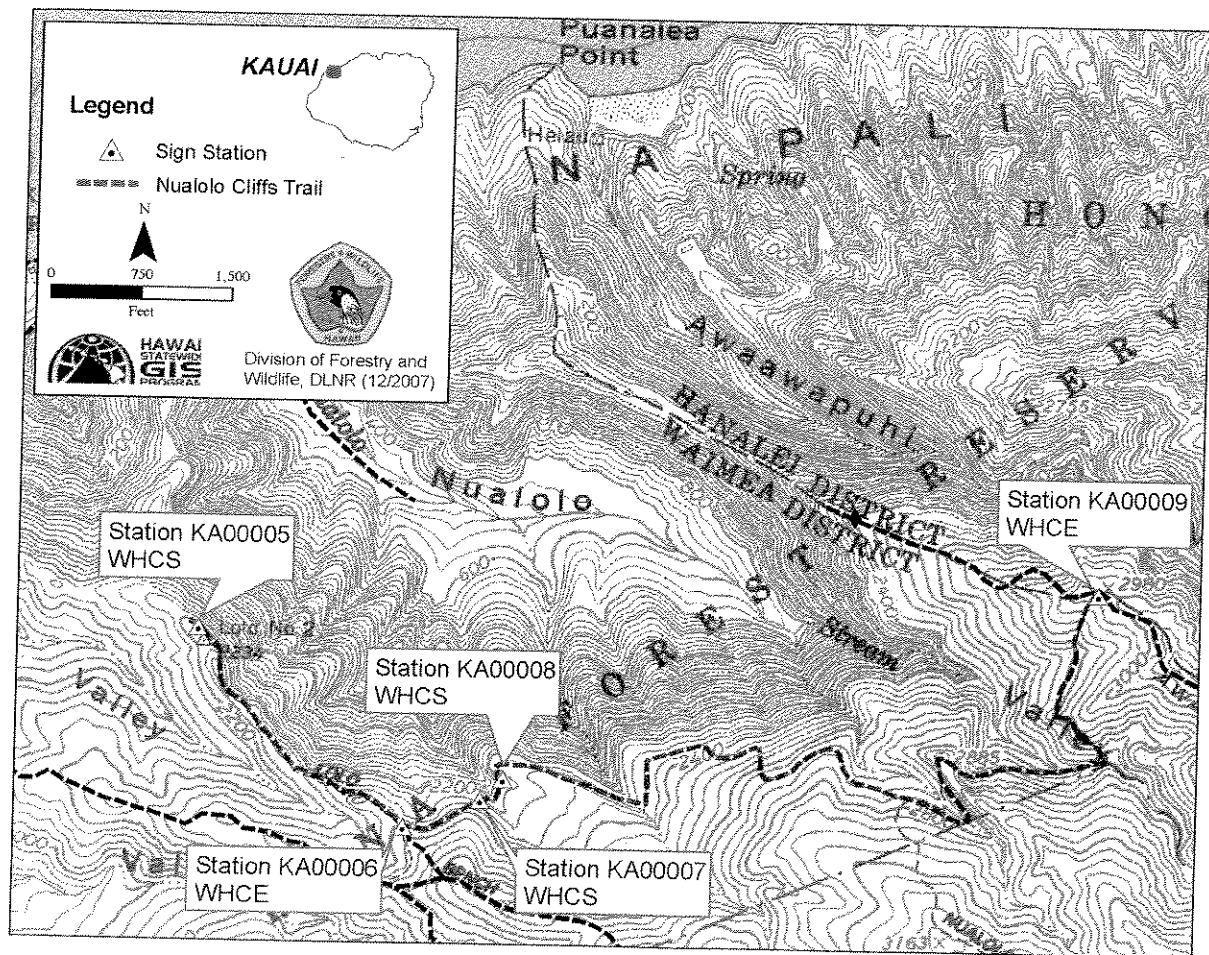


EXHIBIT: C

DOFAW **Island: Kauai** **Trail Name: Awa'awapuhi**

Exposure to natural conditions: Cliffs

Entrance Hazard Signs:

Station: KA00012 Warning- Hazardous Cliffs (WHCE)

Site Specific Hazard Signs:

Station: KA00010 Warning - Hazardous Cliffs (WHCS)

Station: KA00011 Warning – Hazardous Cliffs (WHCS)

Management Signs:

Station: KA00010 End of Trail (NETS)

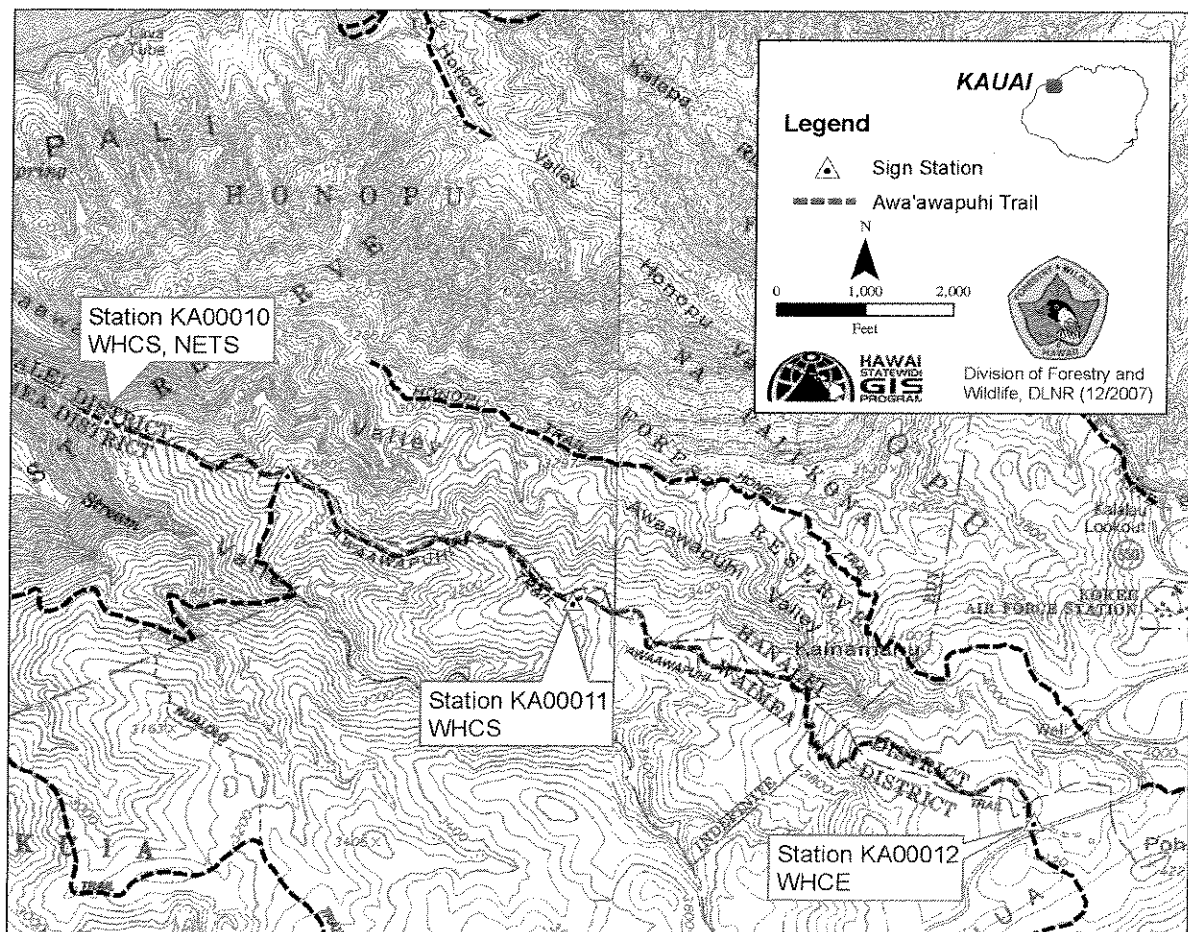


EXHIBIT: C

DLNR Division:

DOFAW

Island: Kauai

**Area Name: Keahua
Forestry Arboretum**

Exposure to natural conditions: Stream crossings, shallow water with submerged hazards

Entrance Hazard Signs:

Station: KA00013	Danger – No Diving or Jumping	(WNDE)
Station: KA00015	Danger – No Diving or Jumping	(WNDE)
Station: KA00013	Warning - Flash Flood	(WFFE)
Station: KA00015	Warning – Flash Flood	(WFFE)

Site Specific Hazard Signs:

Station: KA00014	Danger - No Diving or Jumping	(DNDS)
Station: KA00016	Danger – No Diving or Jumping	(DNDS)
Station: KA00017	Danger – No Diving or Jumping	(DNDS)
Station: KA00014	Warning - Flash Flood	(WFFS)
Station: KA00016	Warning – Flash Flood	(WFFS)
Station: KA00017	Warning – Flash Flood	(WFFS)

